

A pencil lies diagonally across a piece of graph paper. The paper features a grid pattern and a line chart with two intersecting lines. The chart has numerical markings on the left side, showing 100 at the top and 50 in the middle. The background is a warm, sepia-toned color.

Library Management System

SOURCE CODE

AddBook.py

```
import os
import csv

def newBook():
    print("Add a new Book Record")
    print("~~~~~")
    f = open('library.csv', 'a', newline='\r\n')
    s = csv.writer(f)
    bookid = int(input('Enter book id:'))
    bookname = input('Enter book name:')
    bookauthor = input('Enter author name:')
    price = float(input('Enter price:'))
    copies = float(input('Enter number of copies:'))
    rec = [bookid, bookname, bookauthor, price, copies]
    s.writerow(rec)
    f.close()
    print("◆Book Record Saved◆")
    input("Press any key to continue..")
newBook()
|
```

ModifyBook.py

```
def modify():
    print("Modify a Book Record")
    print("~~~~~")
    f=open('library.csv','r',newline='\r\n')
    f1=open('temp.csv','w',newline='\r\n')
    f1=open('temp.csv','a',newline='\r\n')
    r=input('Enter bookid whose record you want to modify=')
    s=csv.reader(f)
    s1=csv.writer(f1)
    for rec in s:
        if rec[0]==r:
            print("-----")
            print("Book id=",rec[0])
            print("Book Name=",rec[1])
            print("Author=",rec[2])
            print("Price=",rec[3])
            print("Number of copies=",rec[4])
            print("-----")

            choice=input("Do you want to modify this Book Record(y/n)=")
            if choice=='y' or choice=='Y':
                bookid=int(input('Enter new book id='))
                bookname=input('Enter new book name=')
                bookauthor=input('Enter new author name=')
                price=float(input('Enter new price='))
                copies=float(input('Enter new number of copies='))
                rec=[bookid,bookname,bookauthor,price,copies]
                s1.writerow(rec)
                print("Book Record Modified")
            else:
                s1.writerow(rec)
        else:
            s1.writerow(rec)
    f.close()
    f1.close()
    os.remove("library.csv")
    os.rename("temp.csv","library.csv")

    input("Press any key to continue..")
```

DeleteBook.py

```
def delete():
    f=open('library.csv','r',newline='\r\n')
    f1=open('temp.csv','w',newline='\r\n')
    f1=open('temp.csv','a',newline='\r\n')
    r=input('Enter bookid whose record you want to delete')
    s=csv.reader(f)
    s1=csv.writer(f1)
    for rec in s:
        if rec[0]==r:
            print("-----")
            print("Book id=",rec[0])
            print("Book Name=",rec[1])
            print("Author=",rec[2])
            print("Price=",rec[3])
            print("Number of copies=",rec[4])
            print("-----")

            choice=input("Do you want to delete this Book Record(y/n) ")
            if choice=='y' or choice=='Y':
                pass
                print("Book Record Deleted....")
            else:
                s1.writerow(rec)
        else:
            s1.writerow(rec)
    f.close()
    f1.close()
    os.remove("library.csv")
    os.rename("temp.csv","library.csv")

    input("Press any key to continue..")
```

Output

```
*****  
Library Management System  
*****
```

```
-----  
@ Main Menu @  
-----
```

1. Add a new Book Record
2. Modify Existing Book Record
3. Delete Existing Book Record
4. Search a Book
5. List all Books
- 6.Exit

```
-----  
Enter your choice1
```

```
Add a new Book Record  
-----
```

```
Enter book id:246
```

```
Enter book name:Panchantra
```

```
Enter author name:Varun\
```

```
Enter price:3987
```

```
Enter number of copies:55
```

```
♦Book Record Saved♦
```

```
Press any key to continue..h
```

```
*****  
Library Management System  
*****
```

```
-----  
@ Main Menu @  
-----
```

1. Add a new Book Record
2. Modify Existing Book Record
3. Delete Existing Book Record
4. Search a Book
5. List all Books
- 6.Exit

```
-----  
Enter your choice2
```

```
Modify a Book Record  
-----
```

```
Enter bookid whose record you want to modify=246
```

```
-----  
Book id= 246
```

```
Book Name= Panchantra
```

```
Author= Varun\
```

```
Price= 3987.0
```

```
Number of copies= 55.0
```

```
-----  
Do you want to modify this Book Record(y/n)=number of copies= 80
```

```
Press any key to continue..
```

```
*****  
Library Management System  
*****
```

```
-----  
@ Main Menu @  
-----
```

1. Add a new Book Record
2. Modify Existing Book Record
3. Delete Existing Book Record
4. Search a Book
5. List all Books
- 6.Exit

```
-----  
Enter your choice3
```

```
Search a Book Record  
-----
```

```
Enter bookid you want to search246
```

```
-----  
Book id= 246
```

```
Book Name= Panchantra
```

```
Author= Varun\
```

```
Price= 3987.0
```

```
Number of copies= 55.0
```

```
-----  
Press any key to continue..4
```

© © © © © © © © © ©
Library Management System
© © © © © © © © © ©

~~~~~

© Main Menu ©

- ~~~~~
- 1. Add a new Book Record
  - 2. Modify Existing Book Record
  - 3. Delete Existing Book Record
  - 4. Search a Book
  - 5. List all Books
  - 6. Exit
- 

Enter your choice6

Software Terminated.....